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Version Number: 1.1

1. Identification

Product Identifiers

Product Name: Bright Dyes® Yellow E-4A Powder

Product Number: E-505910

Recommended Use & Restrictions on Use

Aluminum dye

Manufacturer/Supplier

Kingscote Chemicals, Inc.
3334 South Tech Blvd.
Miamisburg, OH 45342
U.S.A.

Emergency Telephone Number

Company Telephone Number: (937) 886-9100

Emergency Telephone (24 hr): INFOTRAC (800) 535-5053 (North America)
+1-352-323-3500 (International)

2. Hazards Identification

Classification

Category 4	Acute toxicity - Oral
Category 4	Acute toxicity – Inhalation (Dusts/Mists)

Signal Word

Warning

Hazard Statements

Harmful if swallowed

Harmful if inhaled



Precautionary Statements

Wash face, hands, and any exposed skin thoroughly after handling

Do not eat, drink, or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Get medical advice / attention

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Do not induce vomiting

Dispose of contents/container to an approved waste disposal plant

Hazard Not Otherwise Classified (HNOC)

Very toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Chemical Name	CAS #	Weight %
Chromium(III) Compounds	16065-83-1	<5
Chromium	7440-47-3	<3

**If Chemical Name/CAS # is "proprietary" and/or Weight % is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.*

4. First-Aid Measures

First-Aid Measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical advice/attention if irritation occurs.
Skin Contact	Wash with soap and water. Get medical advice/attention if irritation occurs.
Inhalation	Remove to fresh air. If breathing is difficult, administer oxygen; seek medical attention immediately.
Ingestion	Rinse mouth. DO NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention if large quantities were ingested or if nausea occurs.

Most Important Symptoms and Effects

Symptoms	Chromium and certain chromium compounds have been reported to cause damage to the lungs, resulting in cumulative damage. Dermatitis has been reported from repeated, prolonged contact with chromium compounds.
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Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to Physician	Treat symptomatically.
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5. Fire-Fighting Measures

Suitable Extinguishing Media

Water. Foam. Carbon dioxide (CO₂). Dry chemical. Regular foam.

Unsuitable Extinguishing Media

Not determined

Specific Hazards Arising from the Chemical

Remote possibility of dust explosion. Burning may produce oxides of carbon, nitrogen (NO_x), and sulfur.

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

- Personal Precautions** Use personal protective equipment as recommended in Section 8.
- Environmental Precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12 and Section 13.

Methods and Material for Containment and Cleaning Up

- Methods for Containment** Prevent further leakage or spillage if safe to do so.
- Methods for Cleaning Up** Collect into suitable, properly labeled container for recovery or disposal.

7. Handling and Storage

Precautions for Safe Handling

- Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practices. Use personal protection recommended in Section 8. Avoid contact with skin, eyes, or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Conditions for Safe Storage, Including Incompatibilities

- Storage Conditions** Keep container tightly closed and store in a cool, dry, and well-ventilated area. Keep/store only in original container. Do not reuse container.
- Incompatible Materials** Strong oxidizing agents.

8. Exposure Controls / Personal Protection

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Chromium (III) Compounds 16065-83-1	TWA: 0.5 mg/m ³ Cr	TWA: 0.5 mg/m ³ Cr	IDLH: 25 mg/m ³ Cr(III) TWA: 0.5 mg/m ³ Cr
Chromium 7440-47-3	TWA: 0.5 mg/m ³	TWA: 1 mg/m ³	IDLH: 250 mg/m ³ TWA: 0.5 mg/m ³

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

Individual Protection Measures, Such as Personal Protective Equipment:

Eye/Face Protection	Use safety glasses or chemical splash goggles.
Skin & Body Protection	Rubber gloves. Suitable protective clothing.
Respiratory Protection	Wear an appropriate NIOSH/MSHA approved respirator.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practices.

9. Physical and Chemical Properties
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Information on Basic Physical and Chemical Properties

Physical State	Solid	Odor	None apparent
Appearance	Dark yellow powder	Odor Threshold	Not determined
Color	Dark yellow		

Property	Values
pH	6.0 – 7.0 (1% solution)
Melting/Freezing Point	Not applicable
Boiling Point/Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not determined
Upper Flammability Limits	Not applicable
Lower Flammability Limits	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	Not applicable
Specific Gravity	Not applicable
Solubility	Soluble in water
Partition Coefficient	Not determined
Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity	Not determined

10. Stability and Reactivity

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Keep separated from incompatible substances. Keep out of reach of children.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Oxides of carbon, nitrogen (NO_x), and sulfur.

11: Toxicological Information

Information on Likely Routes of Exposure

Inhalation	Harmful if inhaled.
Ingestion	Harmful if swallowed.
Skin Contact	Avoid contact with skin.
Eye Contact	Avoid contact with eyes.

Delayed, Immediate, and Chronic Effects from Short- and Long-Term Exposure

May cause an allergic skin reaction.

Numerical Measures of Toxicity

Not determined

Symptoms Associated with Exposure

See Section 4 of this SDS for symptoms.

Carcinogenicity

Chemical Name	NTP	ACGIH	IARC	OSHA
Chromium (III) Compounds 16065-83-1	-	-	Group 3	-
Chromium 7440-47-3	-	-	Group 3	-

Group 3 IARC components are "not classifiable as human carcinogens".

12. Ecological Information

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Chromium (III) Compounds 16065-83-1	-	4.4: 96 h Oncorhynchus mykiss mg/L LC50 5.07: 96 h Pimephales promelas mg/L LC50	2: 96 h water flea mg/L EC50 168: 96 h water flea mg/L EC50

Persistence/Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Not determined

Other Adverse Effects

Not determined

13. Disposal Considerations**Waste Disposal Methods**

Dispose of in accordance with federal, state, and local regulations.

Contaminated Packaging

Do not re-use empty containers. Dispose of containers in accordance with federal, state, and local regulations.

US EPA Waste Number

Chemical Name	RCRA	RCRA – Basis for Listing	RCRA – D Series Wastes	RCRA – U Series Wastes
Chromium 7440-47-3	-	Included in waste streams: F032, F034, F035, F037, F038, F039	5.0 mg/L regulatory level	-

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Chromium (III) Compounds 16065-83-1	Toxic Corrosive Ignitable
Chromium 7440-47-3	Toxic Corrosive Ignitable

14. Transport Information**Note**

See current shipping paper for most up-to-date shipping information, including exemptions and special circumstances.

DOT	Not regulated
IATA	Not regulated
IMDG	This material may meet the definition of a marine pollutant.

15: Regulatory Information**International Inventories**

Toxic Substances Control Act	Listed
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U.S. Federal Regulations**CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Chromium 7440-47-3	5000 lb 10 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ RQ 10 lb final RQ RQ 4.54 kg final RQ

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313

Chemical Name	CAS #	Weight %	SARA 313 – Threshold Values %
Chromium(III) Compounds	16065-83-1	<5	1.0
Chromium	7440-47-3	<3	1.0

CWA (Clean Water Act)

Chemical Name	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Chromium(III) Compounds 16065-83-1	-	X	-	-
Chromium 7440-47-3	-	X	X	-

U.S. State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Chromium(III) Compounds 16065-83-1	X	-	X
Chromium 7440-47-3	X	X	X

16: Other Information**HMIS**

Health Hazards	Flammability	Instability	Special Hazards
1	1	0	Not determined

NFPA

Health Hazards	Flammability	Physical Hazards	Personal Protection
1	1	0	E

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Revision Note Content Review

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet